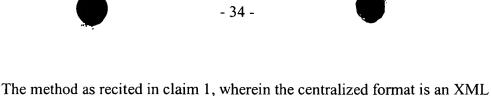
CLAIMS

What is claimed is:

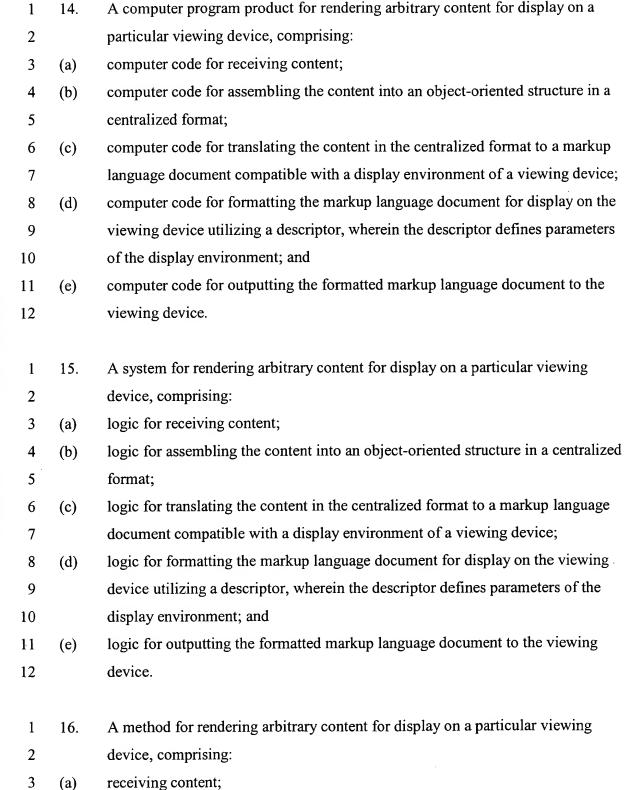
1	1.	A method for rendering arbitrary content for display on a particular viewing
2		device, comprising:
3	(a)	receiving content;
4	(b)	assembling the content into an object-oriented structure in a centralized format;
5	(c)	translating the content in the centralized format to a markup language document
6		compatible with a display environment of a viewing device;
7	(d)	formatting the markup language document for display on the viewing device
8		utilizing a descriptor, wherein the descriptor defines parameters of the display
9		environment; and
10	(e)	outputting the formatted markup language document to the viewing device.
1	2.	The method as recited in claim 1, wherein the object-oriented structure is a tree-
2		type structure.
1	3.	The method as recited in claim 1, wherein the content is assembled into the
2		object-oriented structure node by node.
1	4.	The method as recited in claim 1, wherein content that is assembled into a string
2		is parsed for translating the content into the centralized format, wherein the
3		translated content is assembled into the object-oriented structure.
1	5.	The method as recited in claim 1, further comprising receiving content written in
2		the markup language, and outputting the content written in the markup language

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to the viewing device.



- 1 6. The method as recited in claim 1, wherein the centralized format is an XML format.
- 7. The method as recited in claim 1, further comprising translating the content to a
 desired language.
- 1 8. The method as recited in claim 1, further comprising translating the content to a desired character set.
- 1 9. The method as recited in claim 1, wherein the formatting of the markup
 2 language document for display on the viewing device is based at least in part on
 3 a display screen size of the viewing device.
- 1 10. The method as recited in claim 9, wherein the formatting of the markup
 2 language document for display on the viewing device includes parsing a table
 3 into a format that is viewable on a display of the viewing device.
- 1 11. The method as recited in claim 1, wherein the formatting of the markup
 2 language document for display on the viewing device includes splitting the
 3 markup language document into multiple pages for display on the viewing
 4 device.
- 1 12. The method as recited in claim 1, wherein the formatting of the markup
 2 language document for display on the viewing device includes inserting content
 3 in a template.
- 1 13. The method as recited in claim 1, wherein the display device is a wireless device.





(b) assembling the content into a Document Object Model (DOM) tree in a 4 centralized format; 5 translating the content in the DOM tree to a markup language document 6 (c) 7 compatible with a display environment of a viewing device; 8 formatting the markup language document for display on the viewing device; (d) 9 (e) splitting the markup language document into multiple pages for display on the 10 viewing device; and 11 (f) outputting the formatted markup language document to the viewing device. 1 17. The method as recited in claim 16, wherein the content is assembled into the 2 DOM tree node by node. The method as recited in claim 16, wherein content that is assembled into a 18. 2 string is parsed for translating the content into the centralized format, wherein the translated content is assembled into the DOM tree. 3 The method as recited in claim 16, further comprising receiving content written 1 19. 2 in the markup language, and outputting the content written in the markup 3 language to the viewing device. The method as recited in claim 16, wherein the centralized format is an XML 1 20. 2 format. 1 21. The method as recited in claim 16, wherein a descriptor defines parameters of 2 the display environment, wherein the markup language document is formatted 3 for display on the viewing device utilizing the descriptor.

The method as recited in claim 16, further comprising translating the content to

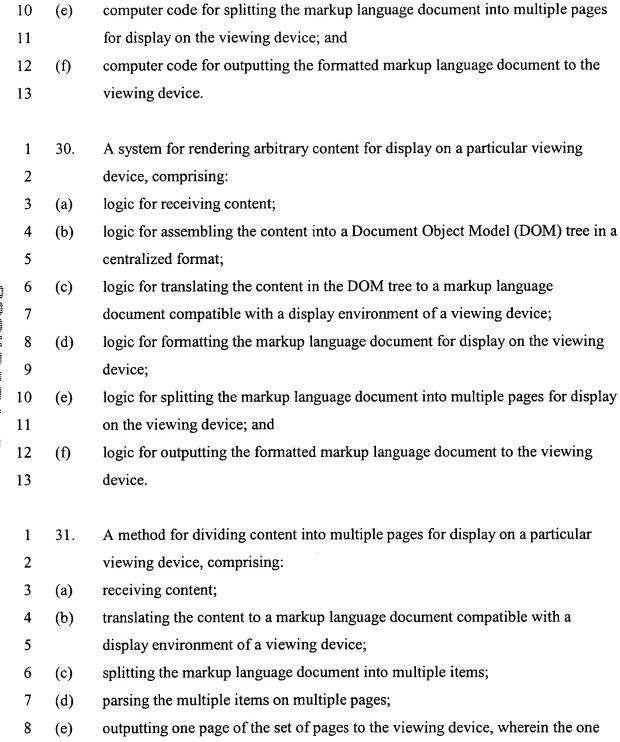
a desired language.

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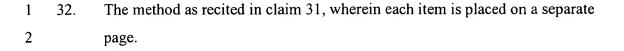
22.

- 1 23. The method as recited in claim 16, further comprising translating the content to a desired character set.
- The method as recited in claim 16, wherein the splitting of the markup language document is based at least in part on a display screen size of the viewing device.
- The method as recited in claim 16, wherein splitting of the markup language document is based at least in part on a memory of the viewing device.
- The method as recited in claim 16, wherein the formatting of the markup language document for display on the viewing device includes parsing a table into a format that is viewable on a display of the viewing device.
- The method as recited in claim 16, wherein the formatting of the markup language document for display on the viewing device includes inserting content in a template.
- The method as recited in claim 16, wherein the display device is a wireless device.
- 1 29. A computer program product for rendering arbitrary content for display on a particular viewing device, comprising:
- 3 (a) computer code for receiving content;
- 4 (b) computer code for assembling the content into a Document Object Model
- 5 (DOM) tree in a centralized format;
- 6 (c) computer code for translating the content in the DOM tree to a markup language
- document compatible with a display environment of a viewing device;
- 8 (d) computer code for formatting the markup language document for display on the viewing device;

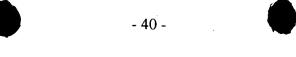


page has a pointer to at least one of the other pages.

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- 1 33. The method as recited in claim 31, wherein each of the pages includes a header.
- 1 34. The method as recited in claim 31, wherein an item is split across multiple pages 2 if the item is too large for a memory of the viewing device.
- 1 35. The method as recited in claim 34, wherein a tag of the item is not split.
- 1 36. The method as recited in claim 34, wherein a split is made within contents of a tag, wherein the tag is placed on each of the multiple pages.
- 1 37. The method as recited in claim 31, wherein an item is split across multiple pages 2 if the item is too large for a display screen size of the viewing device.
- 1 38. The method as recited in claim 37, wherein a tag of the item is not split.
- 1 39. The method as recited in claim 37, wherein a split is made within contents of a tag, wherein the tag is placed on each of the multiple pages.
- 1 40. The method as recited in claim 31, wherein words are not split.
- 1 41. The method as recited in claim 31, wherein selected portions of the content are used to organize the pages.
- 1 42. The method as recited in claim 31, wherein pages not being output to the viewing device are stored in a cache.



- 1 43. The method as recited in claim 42, wherein the cached pages are deleted upon closing of a session.
- 1 44. A computer program product for dividing content into multiple pages for display on a particular viewing device, comprising:
- 3 (a) computer code for receiving content;
- 4 (b) computer code for translating the content to a markup language document 5 compatible with a display environment of a viewing device;
- 6 (c) computer code for splitting the markup language document into multiple items;
- 7 (d) computer code for parsing the multiple items on multiple pages;
- 8 (e) computer code for outputting one page of the set of pages to the viewing device, 9 wherein the one page has a pointer to at least one of the other pages.
- 1 45. A system for dividing content into multiple pages for display on a particular viewing device, comprising:
- 3 (a) logic for receiving content;
- 4 (b) logic for translating the content to a markup language document compatible with a display environment of a viewing device;
- 6 (c) logic for splitting the markup language document into multiple items;
- 7 (d) logic for parsing the multiple items on multiple pages;
- 8 (e) logic for outputting one page of the set of pages to the viewing device, wherein
 9 the one page has a pointer to at least one of the other pages.
- 1 46. A method for rendering arbitrary content for display on a particular viewing
- device, comprising:
- 3 (a) receiving content;
- 4 (b) assembling the content into an object-oriented structure in a centralized format;
- 5 (c) translating the content in the centralized format to a markup language document
- 6 compatible with a display environment of a viewing device;

